

## CASE STUDY

# Dublin Police Services

*Dublin (CA) Police Services recently utilized Vintra's web-based solution, which harnesses the power of artificial intelligence (AI) to enable fast and accurate search of any video, to dramatically accelerate and improve their investigations of two separate incidents.*

## CASE "A" CHALLENGE

Following a home invasion, the Dublin Police obtained static security camera footage from a neighbor's home. The camera was affixed to the side of the neighbor's house and recorded continuously. The footage they collected totaled over 70 hours. "With that amount of footage, it normally would take more than three days for our team to manually review the footage," the Dublin Police detective said. "The reality is, it would have been extremely challenging for us to get through it all in a period of time that would've made an impact on the case." Against the clock, the Dublin Police uploaded their footage to Vintra's solution and let it do the heavy lifting of reviewing and analyzing the video.

## CASE "A" SOLUTION

When the incident happened, Vintra's solution processed and analyzed the 70 hours of footage in less than 24 hours. Today, due to Vintra's ever-improving technology, that same 70 hours of footage can be processed in under six hours. In the past, time, money and basic human limitations inherent in traditional manual video review would have restricted detectives' video search and review efforts to the time of and immediately before the home invasion. Using Vintra's advanced Motion Event Summary feature, which smartly removes idle frames from static footage and shows the user only those clips containing pertinent movement, detectives quickly identified the suspect's vehicle at the time of the invasion, and also discovered the suspect had been casing the house with the same car three days prior. The total length of the Motion Event Summary video was less than 5 hours. This saved the investigators over 65 hours of time doing video review.

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**TODAY, IN LESS THAN SIX HOURS OF PROCESSING TIME, VINTRA'S ARTIFICIAL INTELLIGENCE SOFTWARE CAN TRANSFORM 70 HOURS OF BURDENSOME FOOTAGE INTO ACTIONABLE INTELLIGENCE THAT CAN SHED NEW LIGHT ON PREVIOUSLY UNLINKED CASES.**

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Armed with this new information, the Dublin Police connected the vehicle to multiple cases in the surrounding area. "Because we could go back and easily look at multiple days of footage, which we would never would've have been able to do before," the Dublin Police detective said, "we uncovered behavior we weren't aware of, ultimately linking the car to similar crimes in neighboring towns. It also showed us that the suspect specifically targeted the house."

Today, in less than six hours of processing time, Vintra's artificial intelligence software can transform 70 hours of burdensome footage into actionable intelligence that can shed new light on previously unlinked cases. The resulting Motion Event Summary video saved the Dublin investigative team 65 hours – more than 1.5 weeks of work and approximately \$4,500 of wages spent – of manual, video search and review time.



## CASE STUDY (CONT.)

# Dublin Police Services

## CASE "B" CHALLENGE

The Dublin Police collected 18-gigabytes of footage originating from public traffic and pole cameras for a case involving a shooting incident. Shots were fired by a suspect, who stood next to their vehicle, towards another person who ran from the scene. Because the shooting took place at night, the footage was poorly lit, slightly blurry, and of lower quality. Although they knew when the incident happened, detectives' goals went beyond identifying the vehicle. They wanted to know which direction the suspect's vehicle came from, and when it arrived at the scene.

A Dublin Police detective said, "In the past, this kind of case would have taken a couple days to get through the footage, and we only would have focused on the time of the incident. In an attempt to put together the order of events, we would have been forced to slowly piecemeal our way through the footage."

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## CASE "B" SOLUTION

The shooting incident provided different hurdles for the Dublin Police to overcome. They hoped to establish an order of events, but the footage initially collected surrounding the time of the shooting proved challenging to get a full picture. Whereas previously, it would have taken a long time just to determine the initial video was unhelpful, because Vintra processed and analyzed the video at a fraction of the normal time, detectives went back a day later and collected 24-hours of footage leading up to the time of the shooting.

Using Vintra's AI-powered search, specific vehicles, people, and objects in the video can be quickly identified and sorted. Detectives selected the desired vehicle criteria (such as sub-type, color, and direction of travel), and quickly discovered the suspect's vehicle arrived at the scene of the shooting a full two hours beforehand. This revelation led detectives to believe the shooting wasn't random. "It is our belief that because the suspect arrived two hours earlier, they knew someone at the apartment complex," said a Dublin Police detective. Vintra's solution changed the scope of the investigation, and empowered investigators to not only search through the footage they would've normally reviewed in 75% less time but, more importantly, enabled them to go farther back in the timeline than is typically done. Vintra changed the way the investigation was conducted by giving detectives an unparalleled ability to review footage from the scene of the crime, or any other place or person of interest, as far back into the past as the footage obtained would allow.

## CONCLUSION

By using Vintra's AI-powered solution, the Dublin Police searched more footage faster and with greater efficacy than was previously possible. Vintra was a force multiplier for the Dublin Police, enabling a broader, more thorough investigation that revealed new information about the suspects' behaviors, intents, the order of events preceding the crimes, and even helped establish new connections to similar crimes in the area. In the home invasion case alone, Vintra gave the the Dublin Police investigative team 65 hours and approximately \$4,500 of their time and wage-spend back that could then be used in more effective, dynamic ways to close other cases and increase their clearance rate. Vintra effortlessly transformed a taxing amount of footage into actionable intelligence. A new workflow was created where detectives made decisions quicker, the department's resources were used more efficiently, and detectives expanded the scope of their investigations.

*Click here to start your free trial and experience firsthand the force multiplying power of Vintra's solution.*

**FREE TRIAL**

